

AGING TRANSPORT SYSTEMS RULEMAKING ADVISORY COMMITTEE (ATSRAC)

Task 7 Harmonization Working Group - Report to ATSRAC Committee

DATE: 24 January 2002

Task 7 HWG Membership		<u>Co-Chairs:</u> Anthony (Tony) Poole Airbus Tracey Johnson Boeing	
<u>Name</u>	<u>Organization</u>	<u>Name</u>	<u>Organization</u>
Brett Portwood	FAA	Dennis Lee	Air Canada
Dominique Mazzarino	Airbus	Chris Nichols	AirTran Airways
Philippe Renhas		Robert (Bob) W. Sitz	Delta Air Lines Inc
Claude Cuy-Y-Mola		Robert (Bob) L. Barnett	Airborne Express
Christian Garros (alternate)		Scott Christian	United
Morris Frimer	Boeing	Lukas Zuelling	SR Technics Ltd.
Dave Padilla	Boeing (Long Beach) Boeing Australia Ltd	Elias "Eli" Cotti	NBAA
Ramiro (Ram) T. Esparza II		Robert (Bob) W. Sitz	ATA
Ross Lloyd		Percy Henrique Constanti	Embraer

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Task 7 HWG Meeting Schedule

Date

Location

Past Meetings: July 24, 2001 (Planning)
October 3 – 4, 2001
December 11-13, 2001

Seattle WA Boeing
Toulouse, France Airbus
Seattle, WA Boeing

Future Meetings: March 2002

Washington D.C.

Overview

Task 7 HWG has the responsibility to define the minimum content for the Standard Wiring Practices Manual (SWPM) also known as the Electrical Standard Practices Manual (EPSM)

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<u>Sub-Tasks</u>	<u>Description</u>	<u>Estimated Completion</u>	<u>Status: Red - Green - Yellow</u>
Task 7.1	Establish a Harmonization Work Group	June 2001-Closed	Green – WG7 membership complete with all groups represented.
Task 7.2	Task 7 focal for other ATSRAC HWG Activities	July 2001 - Closed	Green – Working group integration plan in place
Task 7.3	Define a Standard Format	March 2002	Yellow – Master Breakdown Index and format resolved at the Dec meeting in Seattle but adjustments to the format occurred in January. Team discussions are ongoing.
Task 7.4	Define a Standard Content	March 2001	Green – Basic content resolved at the Dec meeting in Seattle
Task 7.5	Recommended Updates of Existing ESPM/SWPMs	March 2002	Green – Compliance with the MBI and migration to the final format proposed at the Dec meeting in Seattle.

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Sub-Task 7.1	Establish a Harmonization Work Group
<p><u>Concept:</u></p> <p>This HWG should consist of, as a minimum, representatives from:</p> <ul style="list-style-type: none"> - The Air Transport Association (ATA) - Operators - Aircraft and component manufacturers - Regulatory authorities 	
<p><u>Work Plan - Task 7.1</u></p> <ul style="list-style-type: none"> - Establish qualification requirements - Lobby volunteers - Volunteers submitted to ATSRAC chairman for final approval 	
<p><u>Deliverables:</u> Harmonized working group</p>	
<p><u>Status - Task 7.1</u></p> <p>Reported as completed in July without ATA participation. Reopened in November but closed with the assignment of ATA representation to Bob Sitz of Delta Airlines and Andy de Wilde of United Airlines.</p>	
<p><u>Roadblocks:</u> None</p>	
<p><u>Assistance Needed:</u> None</p>	

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Sub-Task 7.2	Coordination with other ATSRAC HWGs
<p>Concept:</p> <p>In developing the report for SWPM format, the SWPM HWG must coordinate with:</p> <ul style="list-style-type: none">7 Wire System Certification HWG (addressing TASK 6)8 Enhanced Maintenance Practices for Systems HWG (addressing TASK 9) <p>Therefore, ATSRAC is tasked to develop a process for coordination between these working groups.</p>	
<p><u>Work Plan - Task 7.2</u></p> <p>Working Group coordinators identified for:</p> <ul style="list-style-type: none">- Task 6 Dennis Lee, Christian Garros- Task 8 Ross Lloyd, Scott Christian- Task 9 Bob Barnett- <p>Tracey Johnson was identified as the focal for the weekly conference call.</p>	
<p><u>Deliverables:</u> Contact with other WGs:</p>	
<p><u>Status - Task 7.2</u> Plan for integration of working groups complete. An integration telecon occurs on a weekly basis.</p>	
<p><u>Roadblocks:</u> None</p>	
<p><u>Assistance Needed:</u> None</p>	

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Sub-Task 7.3	Description: Define a Standard Format
<p>Concept To be accomplished after 7.4 (to be worked on concurrently with 7.4)</p> <p>ATSRAC is tasked with defining a standard format for the SWPM that meets the following characteristics:</p> <ul style="list-style-type: none">The SWPM format and organization must provide operators of different aircraft types from different manufacturers the ability to retrieve standard wiring repair and maintenance information from the maintenance manual or wiring diagram manual.The information and data format must be useable and readily retrievable by field level technicians who are performing the maintenance and repairs. Human factor considerations must be taken into account when defining the structure of the manual, so that the potential for human error will be minimized in interpreting wiring practices information.7 The structure of the manual also must allow inclusion of wiring repair and maintenance information	
<p><u>Work Plan</u> - The HWG has developed a “Master Breakdown Index” (MBI) and is in the process of finalizing the assignment of material within that MBI. (Link to MBI)</p> <p>It will be recommended that OAMs apply the MBI to all existing ESWPMs so negating the immediate requirement for a complete revision of the existing manuals .</p> <p>For the user, the MBI would standardize the entry points and the minimum content (task 7.4) for ALL ESWPMs.</p>	

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Sub-Task 7.3

Description: Define a Standard Format

Deliverables:

The ESPM/SWPM HWG will develop the report for any required changes to the ESPM/SWPM format, and consider any recommendations resulting from:

- The Wire System Certification HWG (addressing TASK 6) and
- The Enhanced Maintenance Practices for Systems HWG (addressing TASK9).

Advisory Circular that provides a recommended format to assist the ATA and non-US regulatory agencies with development of a common standard wiring practices manual format.

Roadblocks: None at this time

Assistance Needed: None at this time

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Sub-Task 7.4	Define Standard Content.
<p>Concept: ATSRAC is tasked with defining the minimum content for the SWPM. The minimum content will define standard categories to be included in the SWPM. It will not define the actual procedures associated with the standard content that is pertinent to each manufacturer. The standard content will include the characteristics described below. The technical content is to use source data from ATA Spec 117 and applicable FAA Advisory Circulars, and must address the following subjects, as a minimum:</p>	
<p><u>Work Plan - Task 7.4:</u></p> <p>The HWG has developed a “Master Breakdown Index” (MBI) and is in the process of finalizing the assignment of material within that MBI. (Link to MBI)</p> <p>It will be recommended that OAMs apply the MBI to all existing ESWPMs so negating the immediate requirement for a complete revision of the existing manuals .</p> <p>For the user, the MBI would standardize the entry points and the minimum content (task 7.4) for ALL ESWPMs.</p> <p>In addition</p> <p>Item 1 Review current SPs to identify any additional information categories to be added (all)</p> <p>Item 2 Define the minimum content of SPs (all)</p>	
<p>Deliverables: Advisory Circular that provides a recommended minimum content to assist the ATA and non-US regulatory agencies with development of a common standard wiring practices manual content.</p>	
<p>Roadblocks: None</p>	

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Assistance Needed: None

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Sub-Task 7.5	Recommend Updates of Existing ESPM/SWPMs.
Concept: Review existing standard wiring practice documents and then develop a recommendation whereby these existing documents could or should migrate to the common format and content.	
<u>Work Plan - Task 7.5</u> 7.5.1 Short term implementation recommendations (provide content coverage, minimize impact to providers) 7.5.2 Long term implementation recommendations (achieve standardization of format and content)	
Deliverables: Recommended regulatory wording to be included in any forthcoming requirement.	
<u>Status - Task 7.5</u> To be accomplished once the common format and minimum content are defined.(ESPM 7.5.ppt)	
<u>Roadblocks:</u> None	
<u>Assistance Needed:</u> None	